

Application Serial Number 10/666,009

**A Flexible Multi-cladded Metallic Tape for Forming  
Parabolic Shaped Magnetic Field and Energy Deflecting Devices**

9/7/05  
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The application claims benefit of 60/412,364 dated 20 September 2002.  
BACKGROUND OF THE INVENTION

Mobile telephones operating in an analog mode produce radiation, which has been proven to affect the user's health. Modern mobile telephones operating in digital mode only generate 1/10 of the radiation of the older analog mobile telephones. However, most mobile telephones (specifically cellular telephones) do not have sufficiently good connection with their transmitting towers to stay in the digital mode of operation. Even the newest cellular telephones are dual mode or tri-mode telephones, with the fallback mode of operation being analog. In the fall-back mode of operation (analog), the cellular telephone using it's ability to control an internal rheostat increases it's power radiation by a factor of eight to twelve times over it's digital mode of operation.

The long-term health effects would probably not have shown up for ten to twenty years, except radiation effects are cumulative and today's user is exposing themselves for much longer periods of time than was true when mobile telephones first came into use. Today children are using mobile telephone plans that provide thousands of minutes per month - and they are using them. This extended use will increase the number of health related problems from cellular telephone use and will change the risk profiles of health related statistics.

The Good Housekeeping Institute released a report on cell telephone shields, based on tests conducted by Intertek Testing Services. The test results showed that all of those shields tested were not effective at blocking the radiation from cellular telephones. Good Housekeeping filed formal complaints with the FTC against these manufacturers and the FTC subsequently sued the shield manufacturers for false advertising to stop them from selling non-functional shields.

Mobile telephone transmitting antennas radiate Radio Frequency (RF) energy omnidirectionally. This RF for most mobile telephones is in the microwave range of the energy spectrum. Also, as each RF wave leaves the antenna, an accompanying magnetic wave also is generated.

The new SAR ratings that Cell Phone Manufacturers are now forced to disclose are measurements of this energy absorbed as heat coming off the transmitting antennas of mobile telephones into the users head. SAR stands for Specific Absorption Rate, which is a measure of the amount of heat that reaches sensors placed in the middle of a human skull packed with gel, to approximate the density of the human brain, as depicted in Figure 1.

A question that has surfaced recently concerns the effects on our children. A child's skull is less dense than an adult's, so radiation tunnels deeper into their brains; and a child's brain is still developing, so mutation of the DNA at the basic blood cell level is worse for a child.